

## McLoughlin Point Wastewater Treatment Plant

Located at McLoughlin Point in Esquimalt, the McLoughlin Point Wastewater Treatment Plant will provide tertiary treatment to the core area's wastewater.

### OPERATION

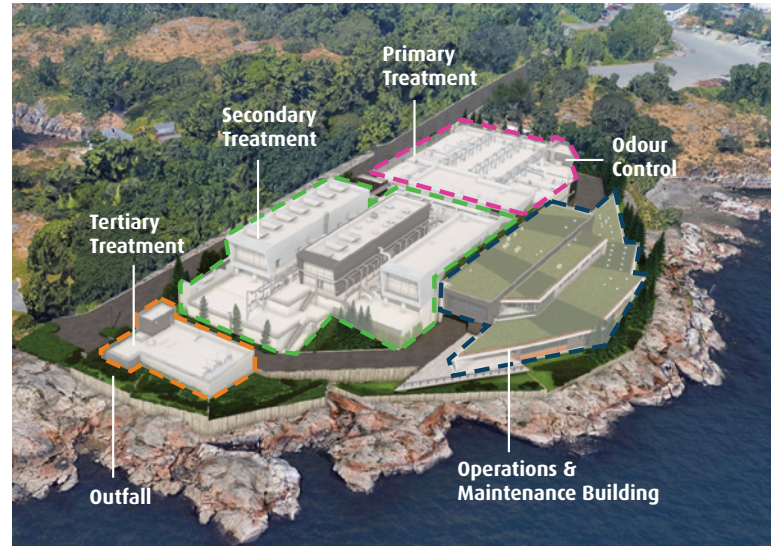
The plant will treat up to 108 megalitres of wastewater per day, providing capacity to accommodate future population growth. Wastewater will go through primary, secondary and tertiary treatment and then be discharged into the ocean through a new outfall approximately 2km from shore and 60m deep. **Primary treatment** is the physical separation of solids from wastewater. **Secondary treatment** is a biological process that removes dissolved and suspended organic compounds in the wastewater. **Tertiary treatment** is a physical process that reduces solids that remain after the secondary treatment process. The plant is being built to post-disaster standards so it will remain operational following a major earthquake. The system is controlled and monitored 24/7.

### DESIGN

Situated at the entrance of Victoria harbour, the design of the treatment plant respects the setting and incorporates the highest standards of design, materials and aesthetics. The design includes a multi-level green roof, mature landscaping, observation deck, and education space. The plant is also designed to increase capacity to accommodate future population growth.

### NOISE

In accordance with the Township of Esquimalt's Zoning Bylaw, operational noise from the McLoughlin Point Wastewater Treatment Plant will not exceed 60 decibels (dBA) outside of the plant's property line (which is similar to an air conditioner).



### ODOUR

The McLoughlin Point Wastewater Treatment Plant has been designed so there will be no detectable odour by residents. It will include the following:

- State-of-the-art odour control;
- 24-hour odour control monitoring system;
- Detailed procedures for responding to odour issues, in the unlikely event that one occurs; and,
- A CRD phone line to report any odour issues 24 hours a day.





# Wastewater Treatment Project

Treated for a cleaner future

## CONSTRUCTION

The contractor selected to build the treatment plant, Harbour Resource Partners, began construction in June 2017.

Activities completed to date include site preparation, blasting and excavation, and installation of the cross-harbour undersea pipe from Ogden Point to McLoughlin Point. Remaining construction works include: pouring concrete foundations; exterior building construction, and mechanical and electrical work inside the building.

Work hours are Monday to Sunday from 7:00 a.m. to 7:00 p.m.

## TRUCK TRAFFIC ROUTE

A Traffic Management Plan was developed by the Township of Esquimalt, Harbour Resource Partners, and the Project Team to ensure that all traffic follows designated traffic routes. The plan includes an alternate summer route that will be used in July and August when schools are not in session. The Traffic Management Plan was approved by the Township of Esquimalt and was developed using the following guiding principles:

- Public safety for motorists, cyclists and pedestrians;
- Impacts on local community;
- Bylaw compliance; and,
- Incorporation of community feedback.

## ANTICIPATED CONSTRUCTION ACTIVITIES

### Pouring Concrete

Spring 2018 – Fall 2019

### Building Construction

Spring 2019 – Spring 2020

### Plant Commissioning

Spring 2020 – Fall 2020

*\*Construction schedules subject to updates based on construction operations.*



## ABOUT THE PROJECT

The Wastewater Treatment Project is being built to provide tertiary treatment for wastewater from the core area municipalities of Victoria, Esquimalt, Saanich, Oak Bay, View Royal, Langford and Colwood, and the Esquimalt and Songhees Nations to meet federal and provincial regulations by December 31, 2020.

**For More Information**

**Website:** [wastewaterproject.ca](http://wastewaterproject.ca)

**Email:** [wastewater@crd.bc.ca](mailto:wastewater@crd.bc.ca)